This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-23 (canceled)

1	Claim 24. (original) A method of providing real time traffic weighted				
2	routes using a navigation system having a route calculation program that uses a map				
3	database that includes road segment records that represent portions of roads in a road				
4	network in a geographic region, comprising the steps of:				
5	receiving a wireless transmission indicating weightings applicable to roads in said				
6	road network;				
7	calculating a solution route between a first location in said geographic region and				
8	a second location in said geographic region, wherein said solution route comprises a list				
9	of road segment records that was obtained by forming at least one search tree formed of a				
10	plurality of gates, wherein each gate represents a physical location on said road network				
11	and an accessible direction relative to said physical location;				
12	identifying to which of said road segments said weightings apply;				
13	incrementing each of said gates in said at least one search tree that corresponds to				
14	a road segment to which one of said weightings applies;				
15	growing a search tree by expanding gates to form successor gates; and				
16	evaluating which of said successor gates to select for further expansion using said				
17	weighted gates.				

Claims 25-29 (canceled)

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Claim 30. (original) In a route calculation program that determines a solution route between a first location in a geographic region and a second location in the geographic region, using a geographic database that includes data records that represent road segments that form a road network in the geographic region, wherein each road segment is designated as having a rank selected from a plurality of ranks, and wherein

said rank of a road segment is indicative of a functional classification thereof, and 6 wherein the solution route includes a list of road segments that connect via the road 7 network between the first location and the second location, 8 wherein the route calculation program evaluates successor road segments of at 9 least one road segment upon which one of said positions is located and successor road 10 11 segments thereof to find a plurality of road segments that connect via the road network to 12 the other of said positions, and wherein during the process of evaluating successor road segments, a plurality of 13 14 partial solution routes are developed, wherein each of said partial solution routes comprises a plurality of road segments connecting the one of said positions to a road 15 segment whose successor road segments have yet to be evaluated; 16 wherein during the process of evaluating successor road segments, the route 17 calculation program maintains a list of said road segments whose successor road 18 segments are yet to be evaluated; 19 20 wherein an improvement comprises: defining a focus ring area bounded between an inner radius corresponding to a 21 distance of the road segment closest to a point of focus toward which said successor road 22 23 segments are evaluated and an outer radius corresponding a focus ring width; and suppressing from evaluation any road segments whose successor road segments 24 are yet to be evaluated that have a rank less than a highest rank. 25 26 31. (new) The method of Claim 24 wherein each gate identifies an associated 1 2 road segment by referring to a segment database ID. 3 (new) The method of Claim 24 wherein each gate identifies an associated 32. 1 2 road segment with a pointer. 3 33. (new) The method of Claim 24 wherein, in each gate, the accessible 1

direction is reverse from a direction of vehicle travel.

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1	34. (new) The method of Claim 24 wherein each gate also includes a				
2	reference to a predecessor gate.				
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1	35. (new) The method of Claim 24 further comprising:				
2	after calculating the solution route from the first location to the second location,				
3	augmenting an inbound search tree by adding thereto that portion of the at least one				
4	search tree that formed part of the solution route.				
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1	36. (new) The method of Claim 35 further comprising:				
2	maintaining in a memory of the navigation system the inbound search tree as				
3	augmented with that portion of the at least one search tree that formed part of the solution				
4	route.				
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1	37. (new) The method of Claim 24 further comprising:				
2	providing a user of the navigation system with guidance for following the solution				
3	route to the second location from a physical location of the navigation system.				
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1	38. (new) The method of Claim 24 further comprising:				
2	prompting a user of the navigation system to indicate whether a new route should				
3	be calculated upon detection that the navigation system departed from the solution route.				
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1	39. (new) The method of Claim 24 wherein the weighting indicates traffic				
2	conditions.				
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1	40. (new) The method of Claim 24 wherein the weightings are provided to				
2	the navigation system from a traffic monitoring service.				
3					
1	41. (new) The method of Claim 30 wherein said solution route comprises a				
2	list of road segment records that was obtained by forming at least one search tree formed				
3	of a plurality of gates, wherein each gate represents a physical location on said road				
4	network and an accessible direction relative to said physical location;				

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1	42.	(new)	The method of Claim 41 wherein each gate identifies an associated	
2	segment of a r	oad by	referring to a segment database ID.	
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4	43.	(new)	The method of Claim 41 wherein each gate identifies an associated	
5	segment of a road with a pointer.			
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1	44.	(new)	The method of Claim 41 wherein each gate also includes a	
2	reference to a predecessor gate.			